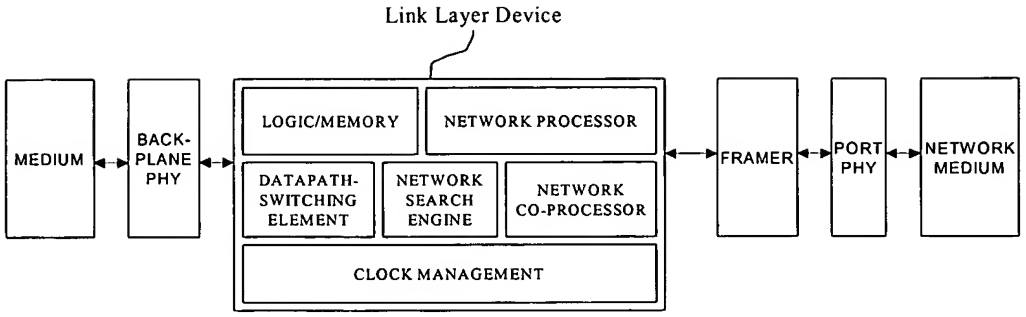

Figure 1A

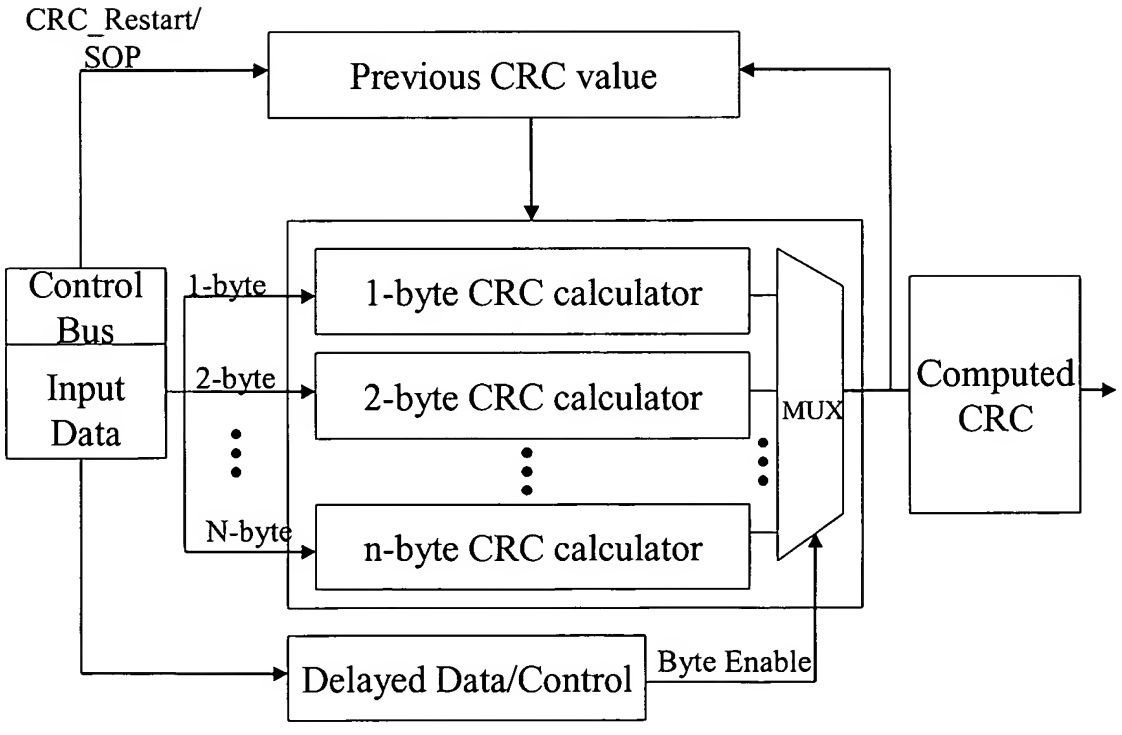

Figure 1B

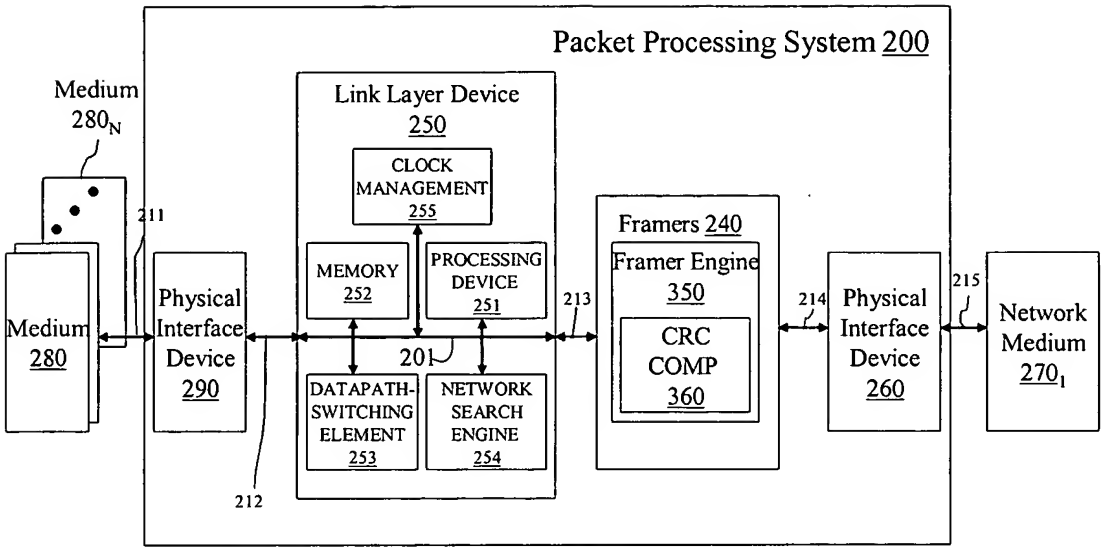

Figure 2

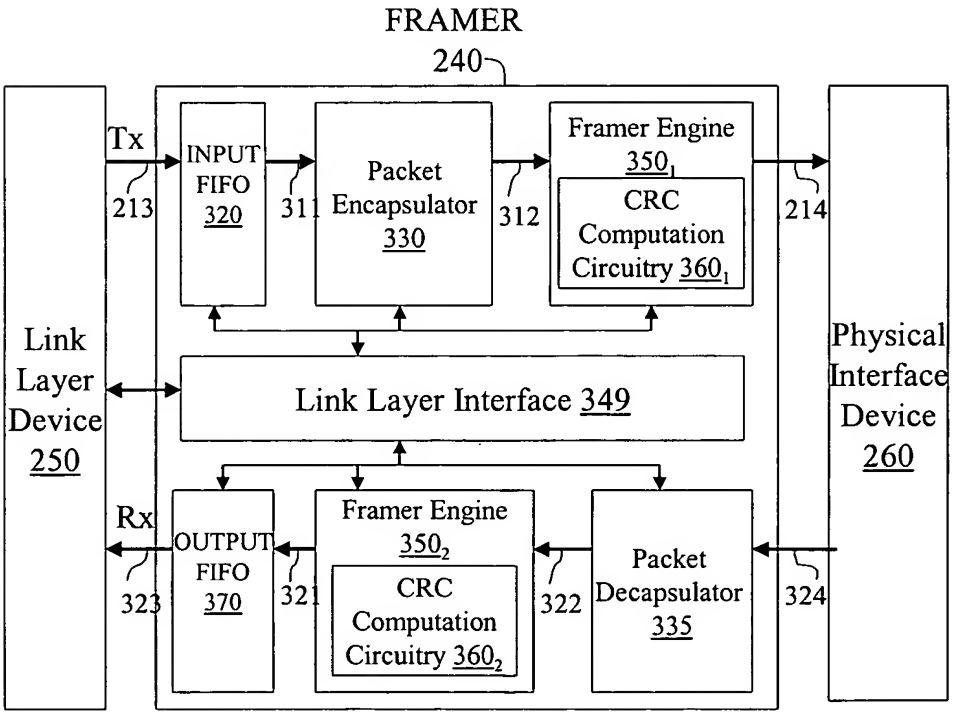

Figure 3

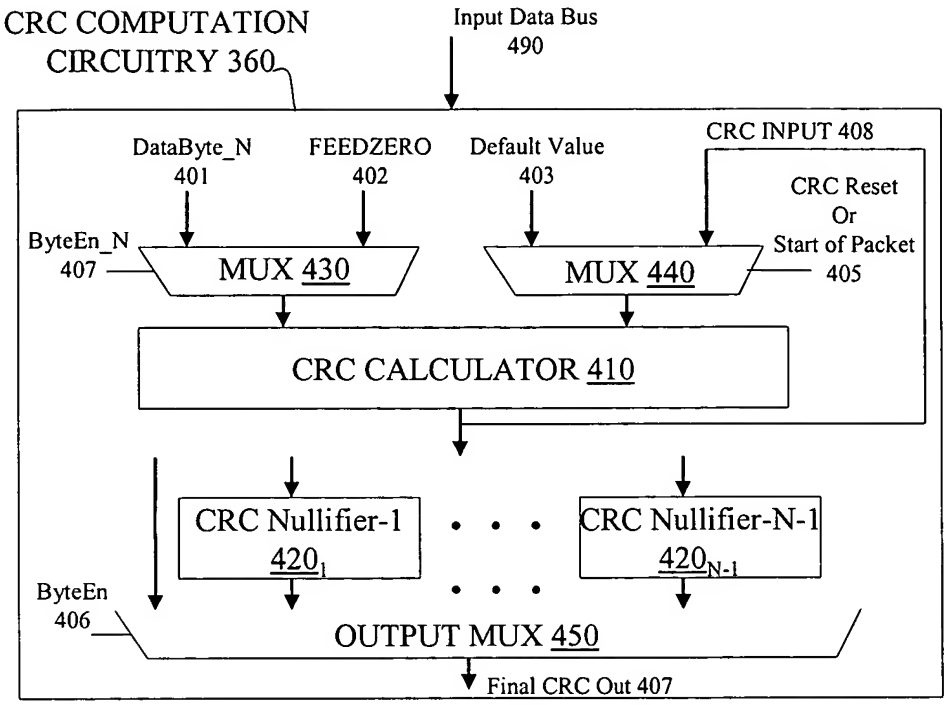

Figure 4

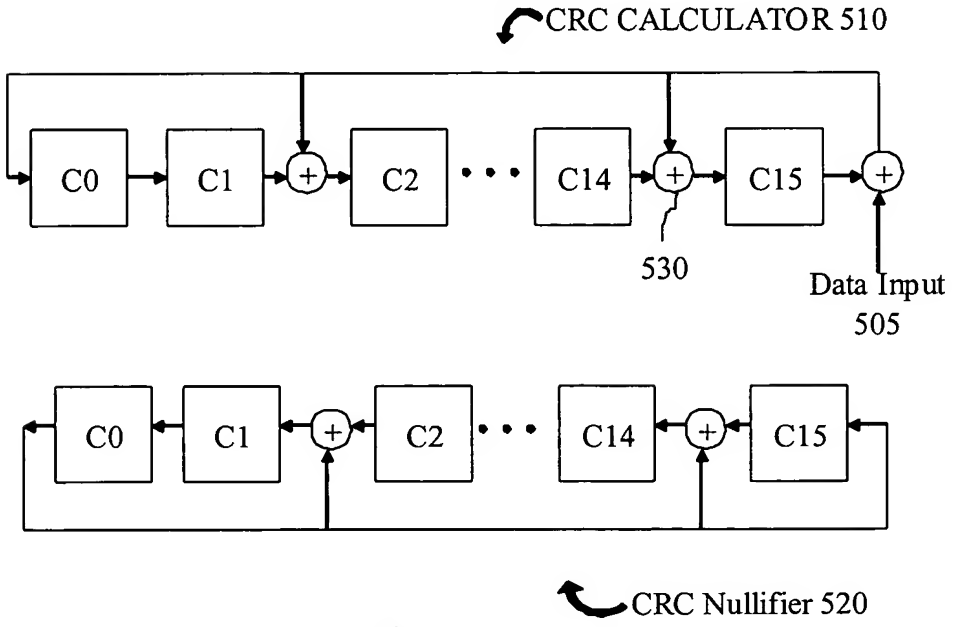

Figure 5

Bus Width	CRC Calculator # of XOR Gates	CRC Nullifier # of XOR Gates
128	2496	512
64	1376	576
56	1280	544
48	1056	448
40	928	512
32	800	384

Figure 6A

Bus Width	Architecture of Fig. 1B # of XOR Gates	Architecture of Fig. 4 # of XOR Gates
128	22,819	9,784
64	6,830	3,996
32	2,128	1,586

Figure 6B

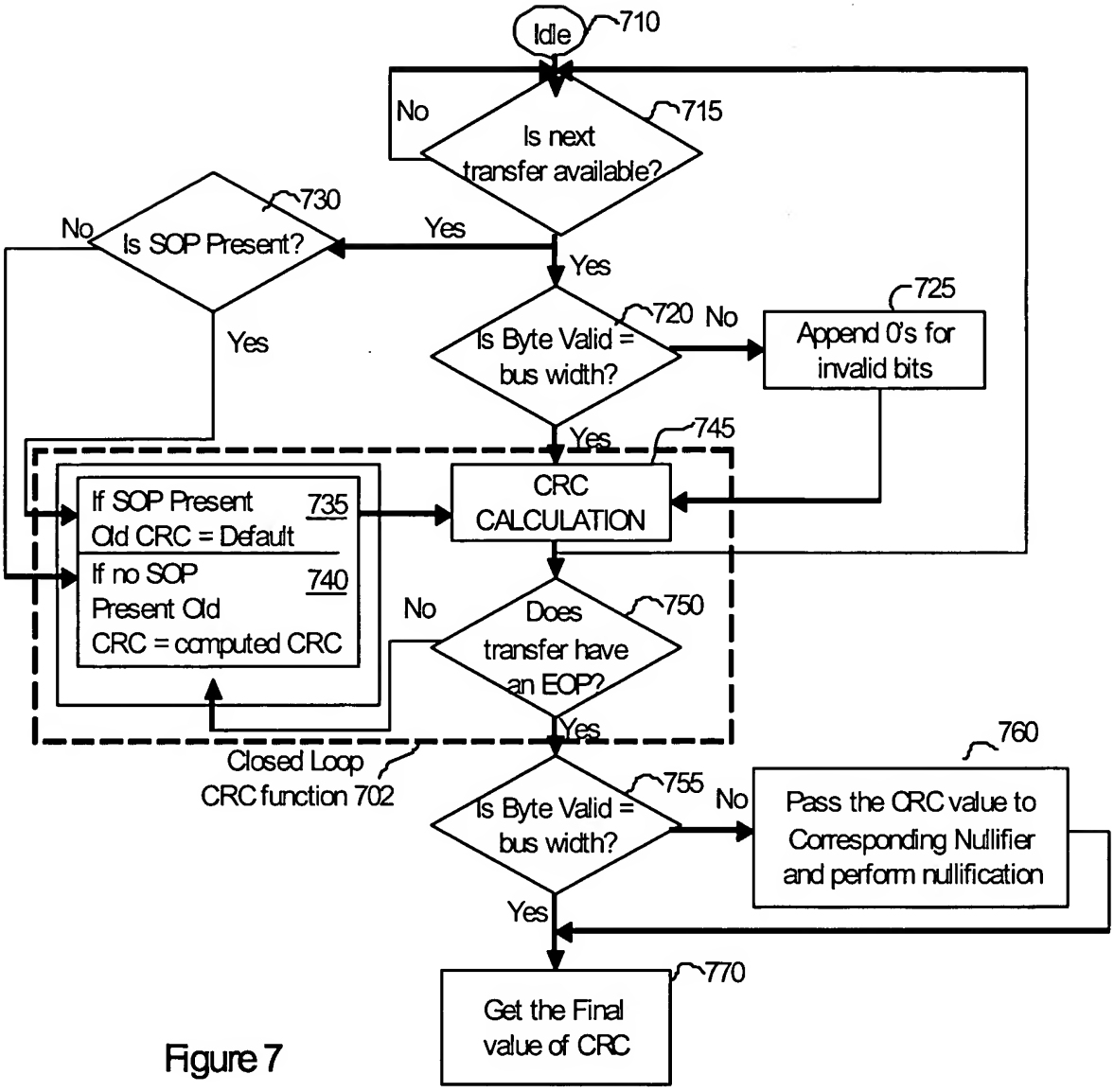
Idle
710
No
715
Is next transfer available?
730
No
Is SOP Present?
Yes
Yes
720
Is Byte Valid = bus width?
No
725
Append 0's for invalid bits
Yes
745
If SOP Present
735
Old CRC = Default
If no SOP Present Old CRC = computed CRC
740
CRC CALCULATION
No
750
Does transfer have an EOP?
Yes
Closed Loop CRC function 702
760
755
Is Byte Valid = bus width?
No
Pass the CRC value to Corresponding Nullifier and perform nullification
Yes
770
Get the Final value of CRC

Figure 7